

of that Light in which they were held. In the full red Light they were totally red without any sensible blue or violet, and in the deep blue Light they were totally blue without any sensible red or yellow; and so in the green Light they were totally green, excepting a little yellow and blue, which were mixed in the green Light of the Prism. And comparing the fringes made in the several coloured Lights, I found that those made in the red Light were largest, those made in the violet were least, and those made in the green were of a middle bigness. For the fringes with which the shadow of a Man's Hair were bordered, being measured cross the shadow at the distance of six Inches from the Hair; the distance between the middle and most luminous part of the first or innermost fringe on one side of the shadow, and that of the like fringe on the other side of the shadow, was in the full red Light $\frac{1}{37\frac{1}{2}}$ of an Inch, and in the full violet $\frac{1}{46}$. And the like distance between the middle and most luminous parts of the second fringes on either side the shadow was in the full red Light $\frac{1}{22}$, and in the violet $\frac{1}{27}$ of an Inch. And these distances of the fringes held the same proportion at all distances from the Hair without any sensible variation.

So then the rays which made these fringes in the red Light passed by the Hair at a greater distance than those did which made the like fringes in the violet; and therefore the Hair in causing these fringes acted alike upon the red Light or least refrangible rays at a greater distance, and upon the violet or most refrangible rays at a less distance, and by those actions disposed the red Light into larger fringes, and the violet into smaller, and the Lights of intermediate Colours into fringes of inter-

intermediate bigness of any sort of Light.

When therefore these Observations of the Sun's Light, and of three fringes of colour from any new moon of Light by the Hair, whereby the several one another, which of all their Colours of the Sun's Light, but of the several Colours to exhibit. The Colours are separated by the Hair, the least refracted from the rest at a greater distance from the Hair; and the separated make visible from the Hair, for a less distance from the Hair. And other rays of light were inflected by the Hair, so as to make intermediate distances from the Hair. And all the Colours are passed by the Hair in various inflexion, they make appear